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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,535	12/14/2006	Nicolas Ibrahim	W51.12-0022	5993
	7590 09/16/201 HAMPLIN & KELLY,	EXAMINER		
SUITE 1400		KHAN, MEHMOOD B		
900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			09/16/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/553,535	IBRAHIM, NICOLAS			
		Examiner	Art Unit			
		MEHMOOD B. KHAN	2617			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1\⊠	Posponsivo to communication(s) filed on 04 Sc	ontombor 2000				
· · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) filed on <u>04 September 2009</u> .					
,—	This action is FINAL . 2b) This action is non-final.					
•	- ' '					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositio	on of Claims					
4)🛛	☑ Claim(s) <u>19-27</u> is/are pending in the application.					
. 4	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
•	6)⊠ Claim(s) <u>19-27</u> is/are rejected.					
	Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/or	election requirement.				
٧,						
Application	on Papers					
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
,	Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
;	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
		·				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da				
	ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Police 6) Other:	ателі Арріісатіоп			

DETAILED ACTION

Note, that the method claims are considered to be tied to known machines, i.e. base stations. Since the claimed emitters in the independent claims are claimed in dependent claims as base stations. It is recommended to the applicant to change emitters and receivers in the independent claims to the base stations and mobile terminal as claimed in dependent claim 24.

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 19-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 19 and 25-27 recite the limitation "the value". There is insufficient antecedent basis for this limitation in the claim.

Claims 19, 25-27 recite "for which the value", it is unclear whether this is referring to the pilots or information elements.

Claims 21 recites the limitation "the transfer function". There is insufficient antecedent basis for this limitation in the claim.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 19-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Laroia et al. (EP 1148673 "Laroia").

Claim 19, Laroia discloses Method for reception of radio data transmitted between at least two emitters and one receiver (Fig. 5: 501-503, 2 Base Stations and one Mobile Station) wherein the method comprises:

a first step of receiving data transmitted by a multicarrier data transmission signal (0008, received pilot signal, since this an OFDM system thus multicarrier),

the multicarrier data transmission signal being formed from a sequence in time of symbols comprising firstly information data elements (Fig. 3, non-shaded squares, on the time scale), and

secondly reference elements called pilots (Fig. 3, shaded squares), distributed within the information data elements according to a predetermined pattern (shaded squares in between non-shaded squares, thus within information data elements), and for which the value during emission is known to the receiver (0014, pilot signal contains known waveforms, thus value, so receivers can identify base stations),

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at least two of the emitters using distinct pilot patterns such that at any given moment and at any given frequency, the receiver can only receive one pilot from the emitters (Figs. 4 and 5, 0017, pilots transmitted with different slopes and on different tones);

a second step of identifying the emitter, which emitted the data, using a control information transmission signal (0019-0020, using a unique slope to identify base station), which allows notably the receiver, upon data reception, to identify the emitter that emitted them (0019, slopes are locally different, i.e. unique thus receiver able to identify base stations); and

a third step of determining the pilot pattern used by the identified emitter (0020, using parameters in a programmed mobile to know the base station).

Claim 20, Laroia discloses wherein, when the pilot pattern was generated using a generation function for which one parameter is an identifier (0019, using a slope to identify the pilots) of the associated emitter, the step of determining implements the generation function as a function of the identified emitter (0020, cell phone can be programmed with known parameter, slope, to figure out base stations).

Claim 21, Laroia discloses a step for extracting the pilots from the multicarrier data transmission signal (0020, determining pilots), and

a step for estimating the transfer function of a transmission channel associated with the multicarrier data transmission signal (0028-0030, which shows solution for E(t) in the channel and a slope solver).

Claim 22, Laroia wherein the multicarrier data transmission signal is of the OFDM type (0019, OFDM).

Claim 23, Laroia discloses wherein each of the emitters uses a specific pilot pattern (0019, unique pilots and slopes).

Claim 24, Laroia discloses wherein said method is implemented in a cellular radio communication network, the emitters are base stations of the network, and the receiver is a mobile terminal (see claim 19).

Claim 25, as analyzed with respect to the limitations as discussed in claim 19.

Claim 26, as analyzed with respect to the limitations as discussed in claim 19.

Claim 27, as analyzed with respect to the limitations as discussed in claim 19.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the

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THREE-MONTH shortened statutory period, then the shortened statutory period will expire on

the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the date of this final action. Any inquiry

concerning this communication or earlier communications from the examiner should be directed

to MEHMOOD B. KHAN whose telephone number is (571)272-9277. The examiner can

normally be reached on Monday - Friday 8:30 am - 5:00 pm. If attempts to reach the examiner

by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on 571-

272-7922. The fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300. Information regarding the status of an application may be obtained

from the Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions

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9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or

access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-

272-1000.

/M. B. K./

Examiner, Art Unit 2617

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/LESTER KINCAID/

Supervisory Patent Examiner, Art Unit 2617